

TomoTherapy
HI·ART



Radionics® INTERFIX™ Radiosurgery Kit

For use with the TomoTherapy®
Hi·Art® Treatment System

 **INTEGRA™**
NeuroSciences

TomoTherapy
HI•ART



The Radionics® InterFix™ Radiosurgery Kit was developed from a long tradition of stereotactic tools and technological successes.

Since 1938, Radionics® has been developing innovative medical devices and today is the world's leading manufacturer of stereotactic equipment. Our developments result from collaborations with the finest institutions, clinicians, and companies around the world. Since 1986, Radionics® has pioneered the field of linac based radiosurgery, inventing much of the instrumentation and procedures currently in use.

Integra NeuroSciences® has incorporated this history of development and learning into the InterFix™ radiosurgery kit. This is the first system specifically designed for cranial radiosurgery with the TomoTherapy® Hi•Art® treatment system. It utilizes many of the industry-standard Radionics® devices for cranial radiosurgery.

Radionics® InterFix™ Radiosurgery Kit

Included Components

- InterFix™ Patient Fixation Table Top Adapter with Patient Cushion (**iFixTTA**)
- InterFix™ Patient Fixation CT Adapter with Patient Cushion (**iFixCT**)
- Radionics® Radiosurgery Head Ring Assembly (**HRAIM**)
- GTC™ (Gill-Thomas-Cosman) Relocatable Head Ring (**GTC**)
- Radionics® CT Localizer Frame (**BRWLF**)
- Disposable Head Ring Screws Short (34 mm), 5 packs, 2 per pack, sterile (**DHRSS5**)
- Disposable Head Ring Screws Long (48 mm), 5 packs, 2 per pack, sterile (**DHRSL5**)



The **InterFix™ Patient Table Top Adapter (iFixTTA)** is a lightweight adapter for attaching the Radionics® head rings to the TomoTherapy® Hi-Art® table top. Its carbon fiber design creates minimal interference for planning and treatment. The **iFixTTA** also has a high yoke to improve patient rigidity and allow easier attachment of the patient's head ring to the adapter. Indexing pins are used to quickly and accurately attach the adapter to the TomoTherapy® Hi-Art® treatment table. The **iFixTTA** is compatible with all Radionics® head rings and includes a patient cushion.



The **InterFix™ Patient Fixation CT Adapter (iFixCT)** is a lightweight adapter designed to attach the Radionics® head rings to a variety of flat CT table tops (47-54 cm in width). It is designed to hold the patient in an identical location as their treatment position, relative to table top, to facilitate accurate treatment on the TomoTherapy® system. The **iFixCT** automatically centers on the CT table and is secured with locking screws.



The **HRAIM radiosurgery head ring** uses minimally-invasive skull pins to secure the patient for the most accurate imaging and treatment. Its large open design, intubation hoop, and drive ratchets work with many head sizes, while allowing access to the patient's airways. The **HRAIM** is well known for its quality and reliability and is the worldwide standard for neurosurgery and radiosurgery.



The **GTC™ non-invasive relocatable head ring** provides repeatable fixation of better than 1 mm¹ and has been clinically proven to be more accurate than mask systems. Its bite block, occipital pad, and biasing straps utilize rigid anatomy rather than skin or other soft tissue to ensure accurate repositioning from CT to treatment and to rigidly immobilize the patient throughout the treatment session.



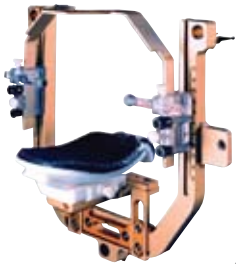
The **BRWLF CT Localizer Frame** has been standard for cranial stereotactic procedures for over two decades. The vertical and diagonal rods of the **BRWLF** are easily identified in pre- and post- registration scans to assist with patient alignment at the CT table, as well as to register the treatment scan to the planning scan.

1. Kooy, Hanne M PhD, Dunbar Susan F MD, Tarbell Nancy J MD, et al. Adaptation and verification of the relocatable Gill-Thomas-Cosman frame in stereotactic radiotherapy. Int J Radiat Oncol Biol Phys 1998;30(3):685-691

Radionics® InterFix™ Radiosurgery Kit

Optional Accessories

- TLC™ (Tarbell-Loeffler-Cosman) Relocatable Pediatric Head Ring (TLCSYS)
- XKnife® Depth Helmet (DH1)
- Onsite training (TRAININGRAD)



The **TLC™ head ring** utilizes the clinically proven technology of the GTC™ customized for the special needs of the pediatric patient. The **TLC™** incorporates an adjustable head cup, ear bars, and a face mask mold around the eyes and nasal bridge. The special design allows unobstructed access to the child's airway by the anesthesiologist.



The **XKnife® Depth Helmet** provides a quantitative check that the head ring position has not changed between the time of CT scanning and treatment. The **XKnife® Depth Helmet** is compatible with the GTC™, TLC™, and HRAIM Head Rings.

As part of your Radionics® InterFix™ Radiosurgery Kit system, you can order an optional **onsite training**. While the use of the kit is explained in detail in its instructions, some customers feel more comfortable with a hands-on training. The optional onsite training consists of practice frame fitting for all purchased head rings, as well as use of the iFixTTA and the iFixCT.

Unrivaled Support

Integra NeuroSciences stands behind the quality and accuracy of every Radionics® InterFix™ kit and component delivered to our customers. Far beyond the delivery to your facility, Integra NeuroSciences provides the quality assurance tools, training, and service to ensure continuous reliability and safety.



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